

**California High-Speed Rail Authority**



**RFP No.: HSR 14-32**

**Request for Proposal for Design-Build  
Services for Construction Package 4**

**Reference Material, Part F.4 – Semitropic  
Water Storage District Conflict Report**



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June 27, 2014

Ms. Diana Gomez, Central Valley Regional Director (1 Original Copy)  
California High-Speed Rail Authority  
2550 Mariposa Mall, Suite 3015  
Fresno, CA 93721

Subject: California High-Speed Rail Project  
Agreement No. HSR 13-17  
Letter Report

Dear Ms. Gomez:

In December of 2013, Semitropic Water Storage District ("District") entered into the subject Agreement with the California High-Speed Rail Authority to identify and document conflicts between the proposed rail alignment and the District's facilities and operations ("Project"). Pursuant to Section 2 of that Agreement, this Letter Report is to transmit all deliverables for the subject Project. Following is a description of the Scope of Work, the Approach, and the Deliverables.

#### SCOPE OF WORK

The scope of work set forth in the Agreement has been completed and includes the following: 1) identification of conflicts between the proposed rail alignment and Semitropic Water Storage District (District) facilities, as well as operational conflicts; 2) identification of conflicts between the proposed rail alignment and future proposed District facilities; 3) research of prior rights records with respect to the identified conflicts; 4) compilation of record drawings (as-built drawings) of the District facilities that are in conflict; and 5) preparation of an inventory (i.e. facility type, pipe material and size etc.) of the District facilities that are impacted.

#### APPROACH

To facilitate identification of conflicts between the proposed rail alignment and the District facilities, conflict maps were prepared. In this regard, the District's Engineering Consultant (GEI Consultants, Inc.) requested and received GIS files from the HSR, which were overlaid with the District's GIS files. With preliminary work maps in hand, a field inspection of potential conflict areas was conducted for the purpose of confirming the indicated

conflicts and identifying and documenting additional potential conflicts. It is noted that the identified conflicts reflect only the District facilities that fall within the HSR alignment footprint which, for the most part, is approximately 100 feet in width. In accordance with direction provided by HSR, the District facilities lying inside a 600-foot wide strip, identified as the limits of “Environmental Clearance” on the conflict maps, were not identified as conflicts. In addition to present-day conflicts, prospective conflicts were identified and documented.

Once the conflicts (both present-day and prospective) were identified, title reports for the affected parcels were ordered and reviewed to determine what easements or rights-of-way encumber the lands. With this information, the District was able to complete documentation of the prior rights research with respect to the identified conflicts.

### DELIVERABLES

Based on the above-described work, the following project deliverables were prepared and are transmitted herewith:

- ✓ Figure 1 – Map showing location of the proposed rail alignment with respect to the District’s boundary.
- ✓ Figure 2 – Map showing the conflicts between the rail alignment and the existing District facilities.
- ✓ Figure 3 – Map showing the conflicts between the rail alignment and the existing District facilities, overlaid on an aerial photo.
- ✓ Figure 4 – Index map showing the locations where potential conflicts exist, and the key map for Figure 5-1 thru Figure 5-12.
- ✓ Figure 5-1 thru Figure 5-12 – Figures showing location-specific conflicts (aerial-based), and identification of conflicts related to the proposed railway alignment and/or proposed roadway work.
- ✓ Figure 6-1 thru Figure 6-16 – “On-the-ground” pictures of District facilities which would be impacted.
- ✓ Figure 7 – Map showing conflicts with prospective District facilities, consisting primarily of interties being considered with the facilities of adjacent districts and with the Friant-Kern Canal.
- ✓ Figure 8A and Figure 8B – Identification of “operational” conflicts.

- ✓ Summary of Conflicts – Inventory of conflicts with detailed information of District facilities impacted (i.e. facility type, pipe material, size, etc.); identification of as-built drawings for impacted facilities; and documentation of prior rights regarding the site for each conflict.

With regard to the identification of prospective conflicts (refer to Figure 7), the following supporting documentation is also transmitted herewith:

NKWSD and SWSD Interconnection:

- ✓ Memo dated September 12, 2009, documenting the principal components of the project to expand the capability to move water between the two districts.

Multi-District Conveyance Facility:

- ✓ Project Brochure describing the project elements for the proposed Concept Study.
- ✓ Preliminary Report Memorandum, dated December 1, 2003, which defines the concept alternatives to facilitate regional water banking.
- ✓ Sketches of the proposed project alternatives, and associated concept-level cost estimates.
- ✓ Project Abstract describing the purpose, project alternatives and cost estimates of the project.
- ✓ It is noted that this project is considered a “first-priority” project in the Poso Creek Integrated Regional Water Management Plan, which was adopted by seven water districts in 2007, and subsequently updated in 2014. Copies of excerpts of the Plan can be provided upon request.

Madera Avenue Intertie

- ✓ Maps showing the proposed alignments with associated construction cost estimates.
- ✓ Cover page of grant proposal submitted to the US Bureau of Reclamation (Reclamation), for the Madera Avenue Intertie, submitted under the San Joaquin River (SJR) Restoration Program.
- ✓ Award letter from Reclamation with notification that the grant proposal (under the SJR Restoration program) was successful.



June 27, 2014

With regard to the documentation of prior rights research, a list of all underlying documents is summarized in the project list which is attached, and a copy of all underlying documents is available upon request.

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If a meeting would be helpful between District staff, its Engineering Consultant, and representatives from the HSR, to discuss the information provided, please feel free to contact me to arrange the meeting. Also, if you have any questions or require any additional information or documentation, please call me (at 661-758-5113) or Ms. Isela Medina (at 661-327-7601).

Sincerely,

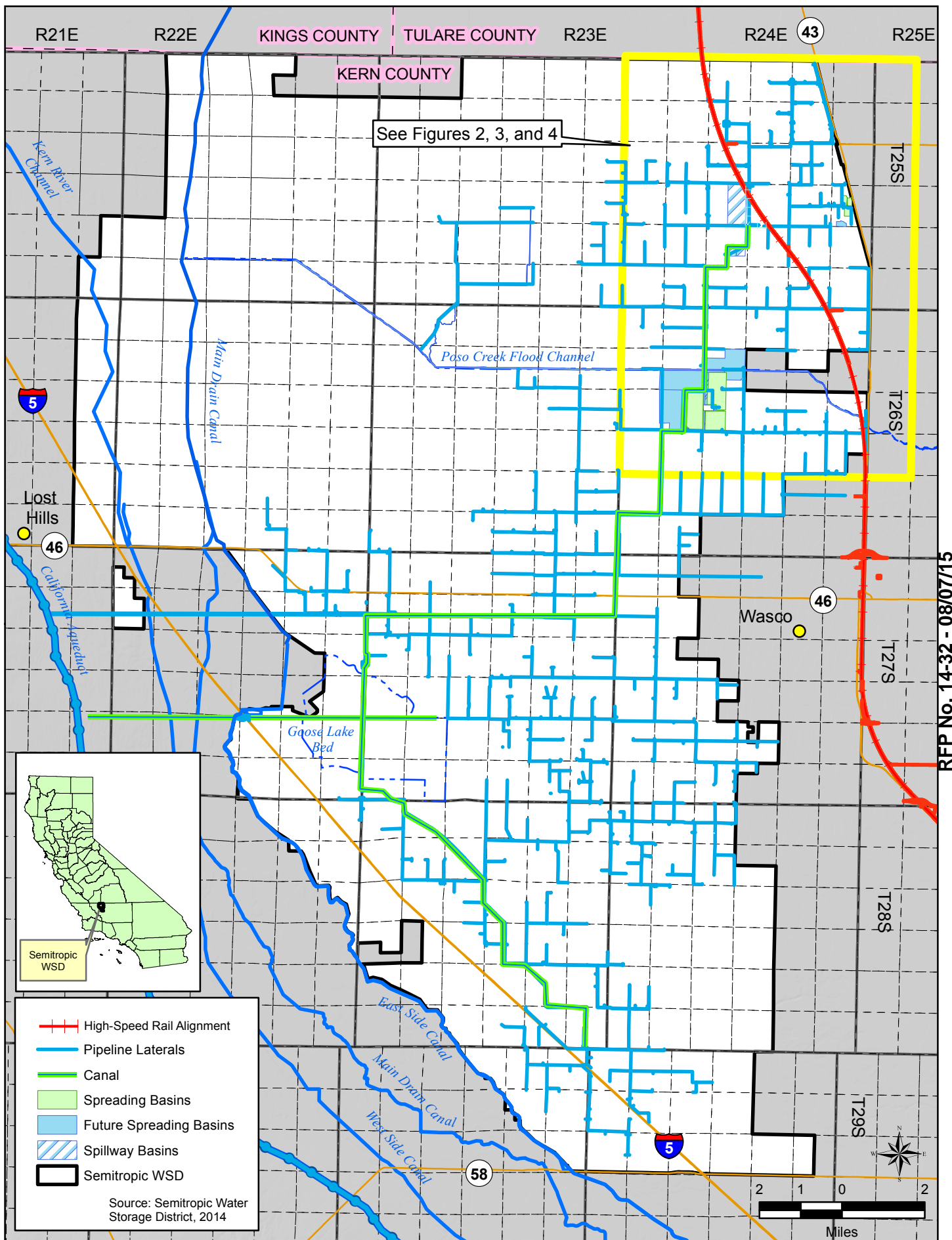


JASON GIANQUINTO  
General Manager

CC: Isela Medina, GEI Consultants, Inc.

Enclosure

## *Conflict Maps*



RFP No. 14-32 - 08/07/15

High-Speed Rail  
Kern County, California

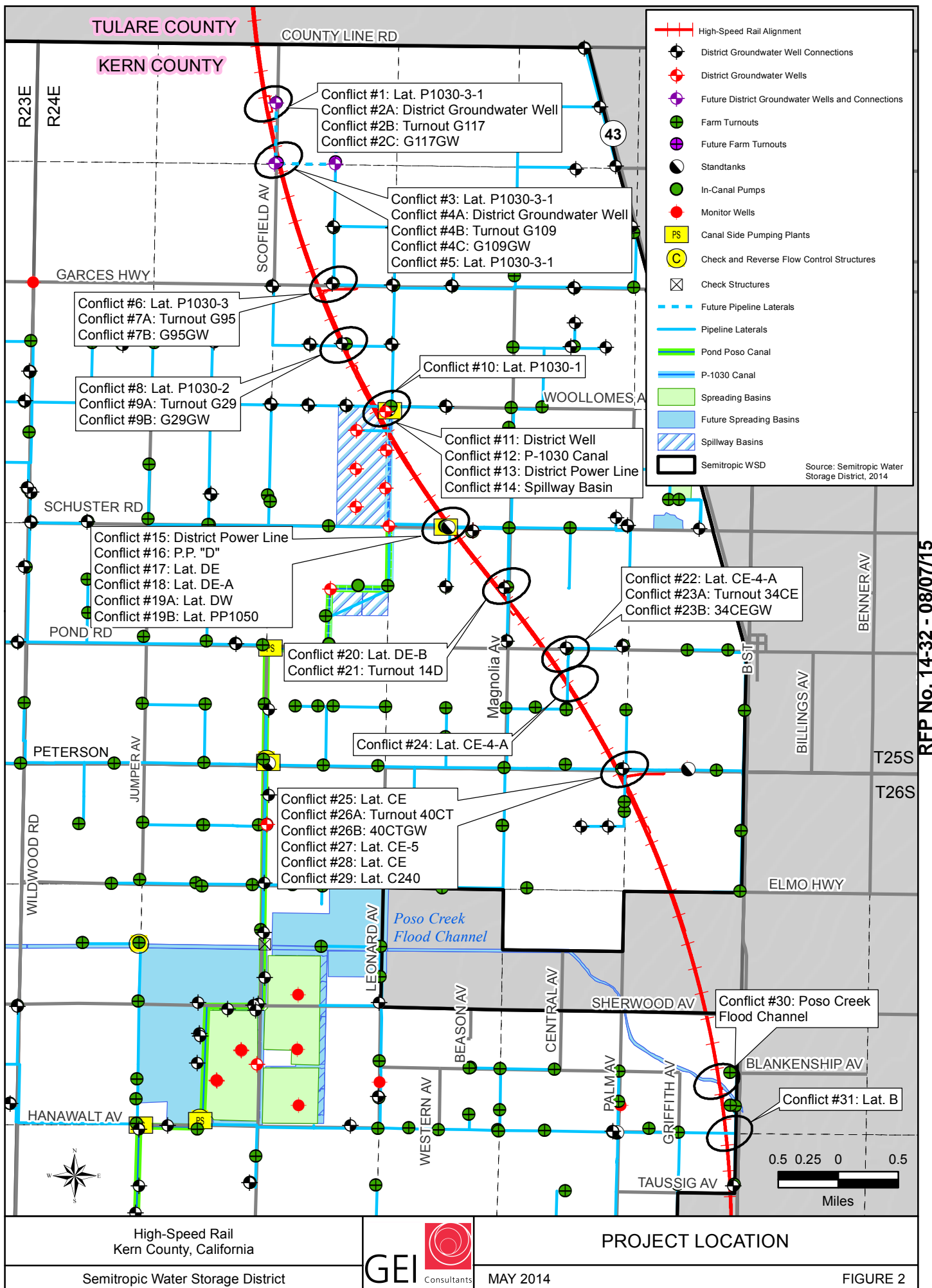
Semitropic Water Storage District



MAY 2014

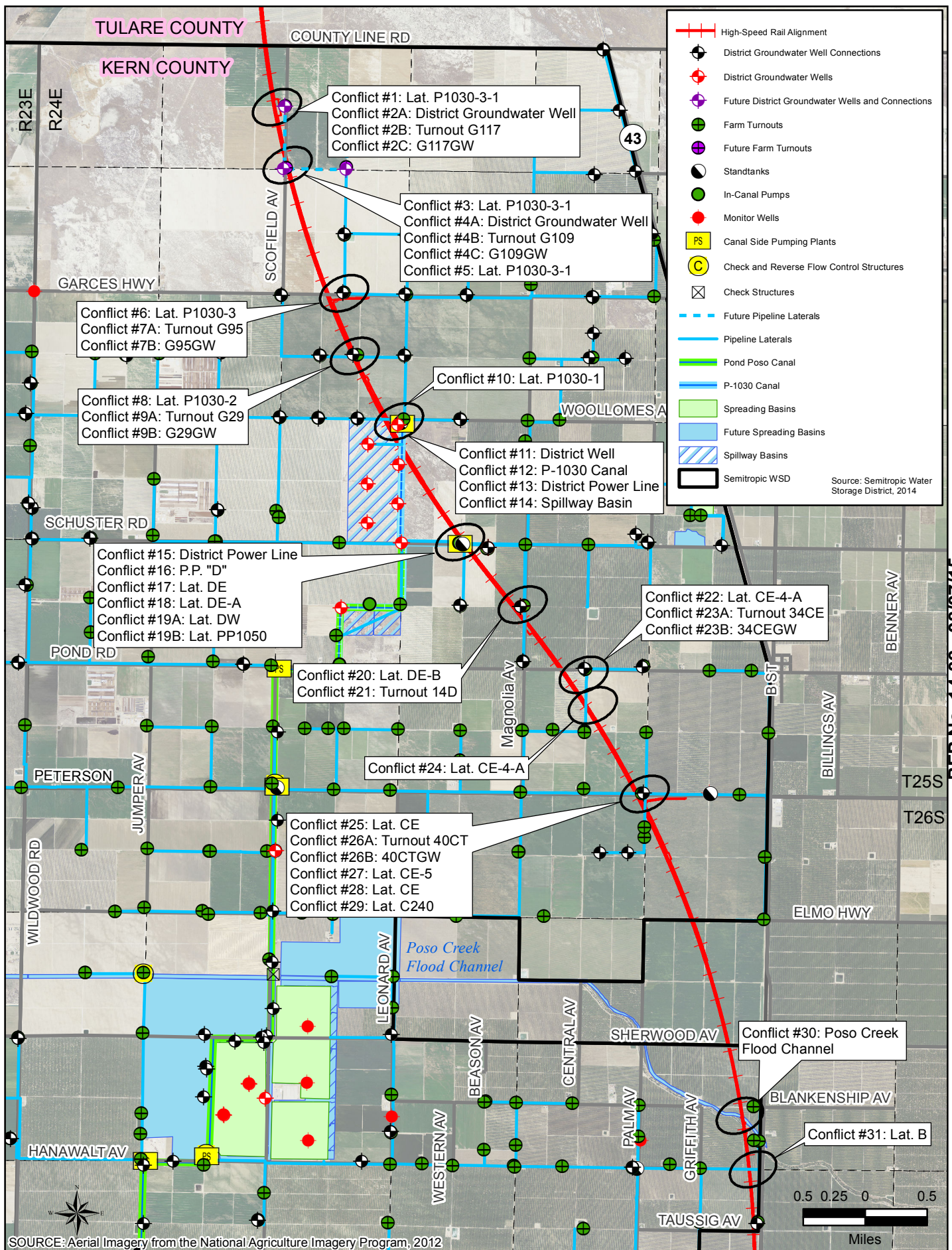
PROJECT LOCATION

FIGURE 1



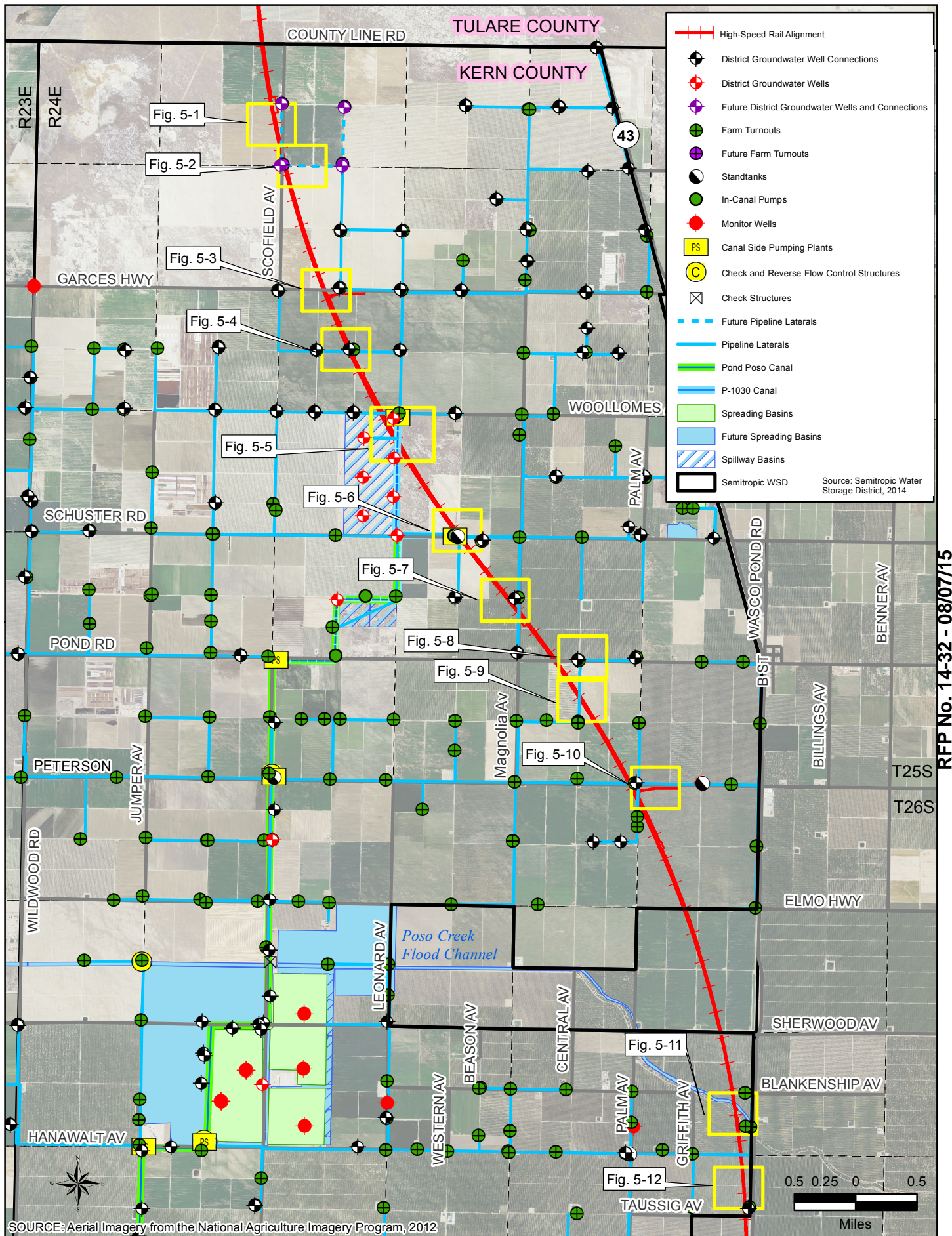
RFP No. 14-32 - 08/07/15





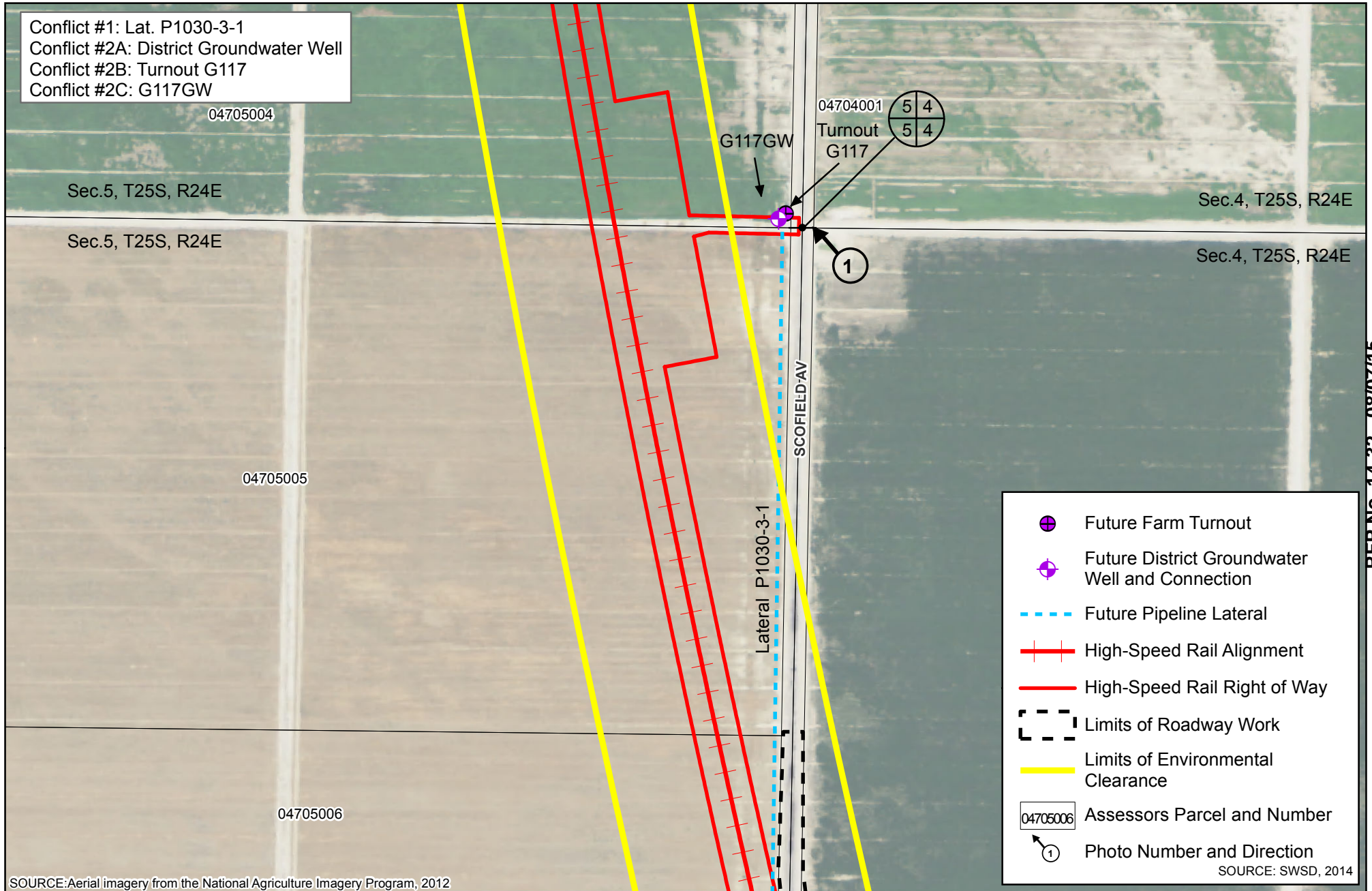
RFP No. 14-32 - 08/07/15



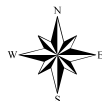
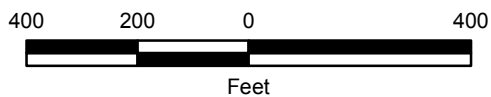




Conflict #1: Lat. P1030-3-1  
 Conflict #2A: District Groundwater Well  
 Conflict #2B: Turnout G117  
 Conflict #2C: G117GW



SOURCE: Aerial imagery from the National Agriculture Imagery Program, 2012



High-Speed Rail  
 Kern County, California

Semitropic Water Storage District

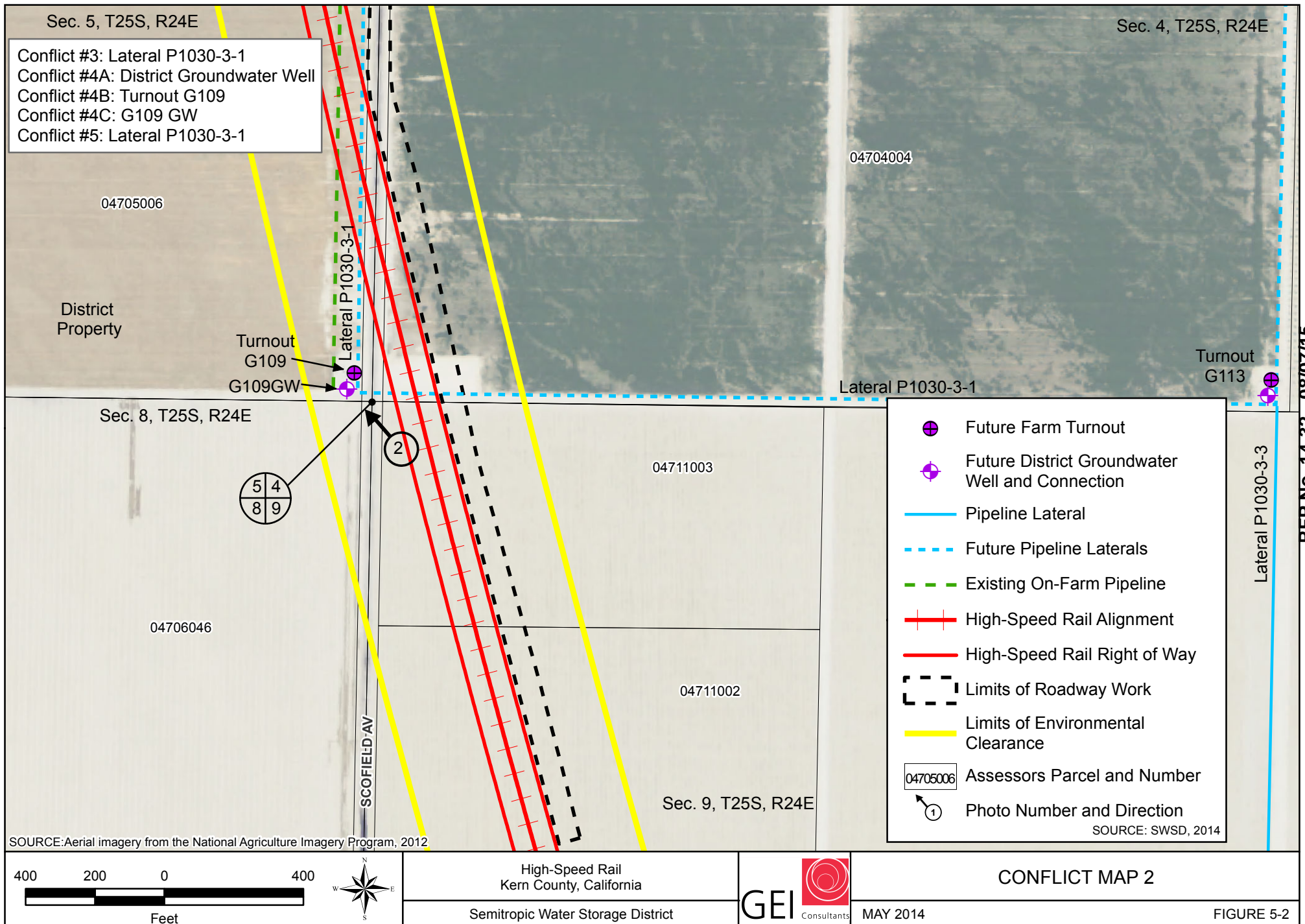
GEI  
 Consultants

MAY 2014

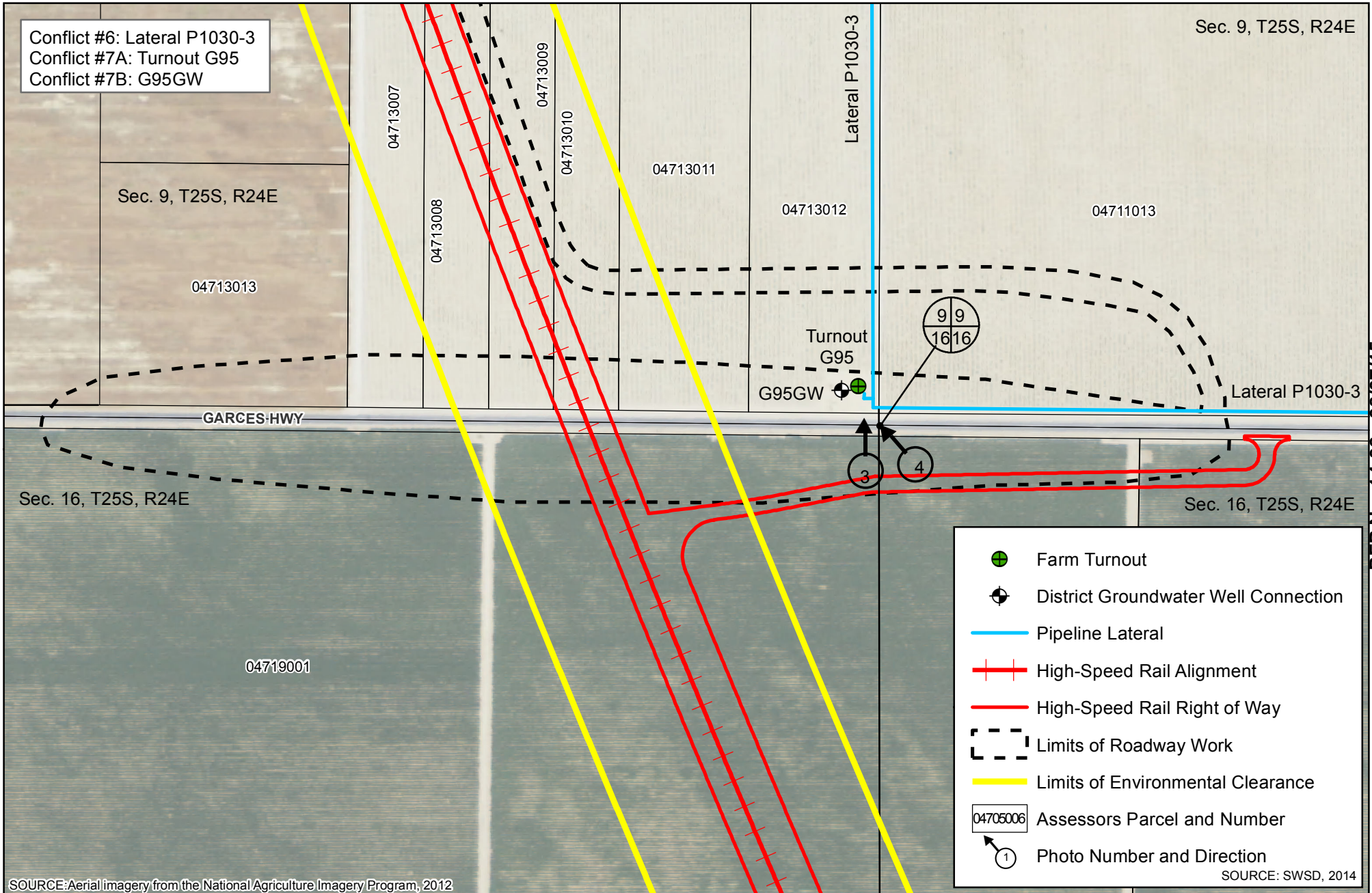
CONFLICT MAP 1

FIGURE 5-1

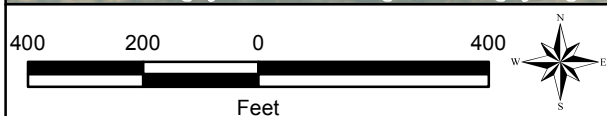
RFP No. 14-32 - 08/07/15







SOURCE: Aerial imagery from the National Agriculture Imagery Program, 2012



High-Speed Rail  
Kern County, California

Semitropic Water Storage District



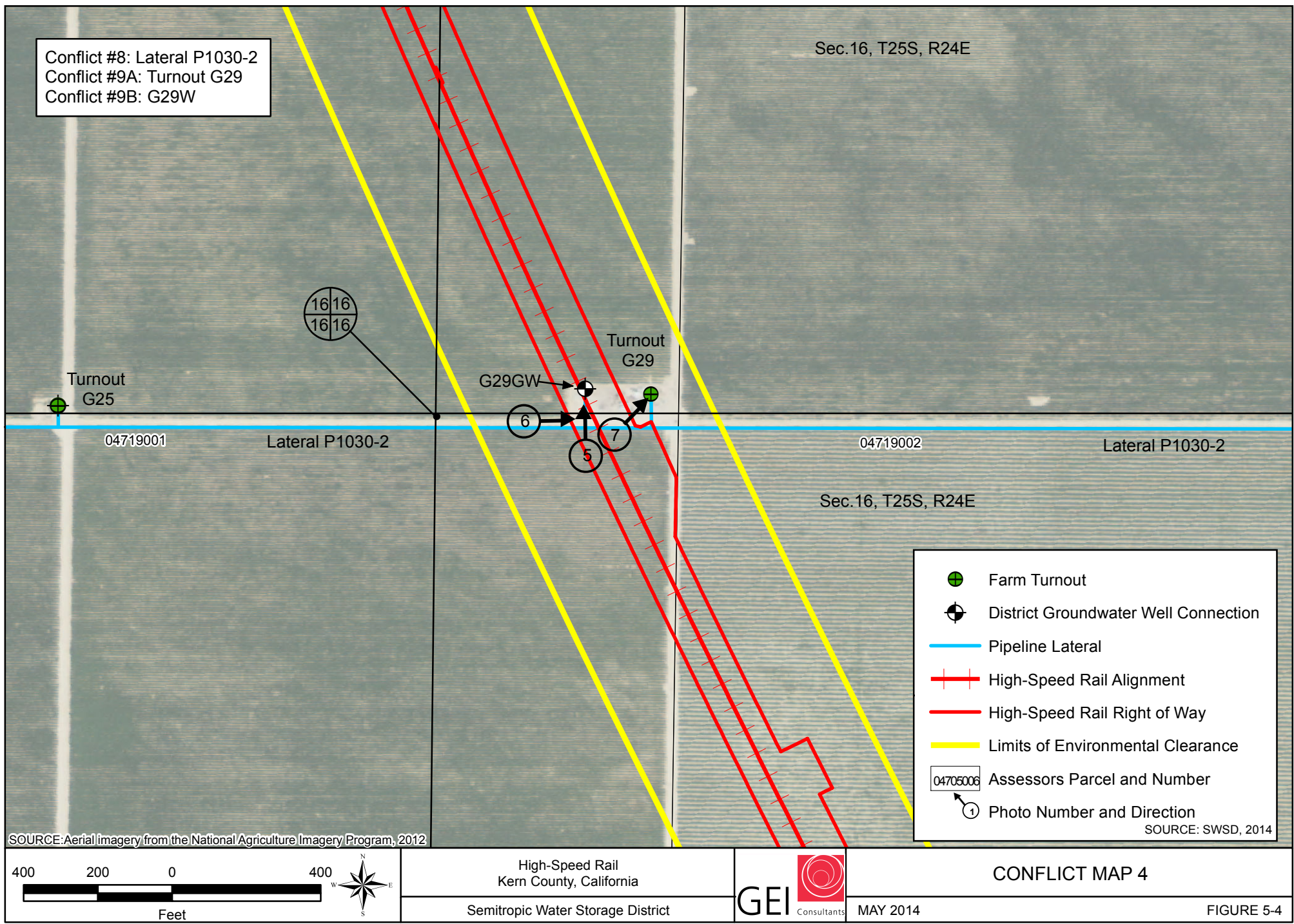
CONFLICT MAP 3

MAY 2014

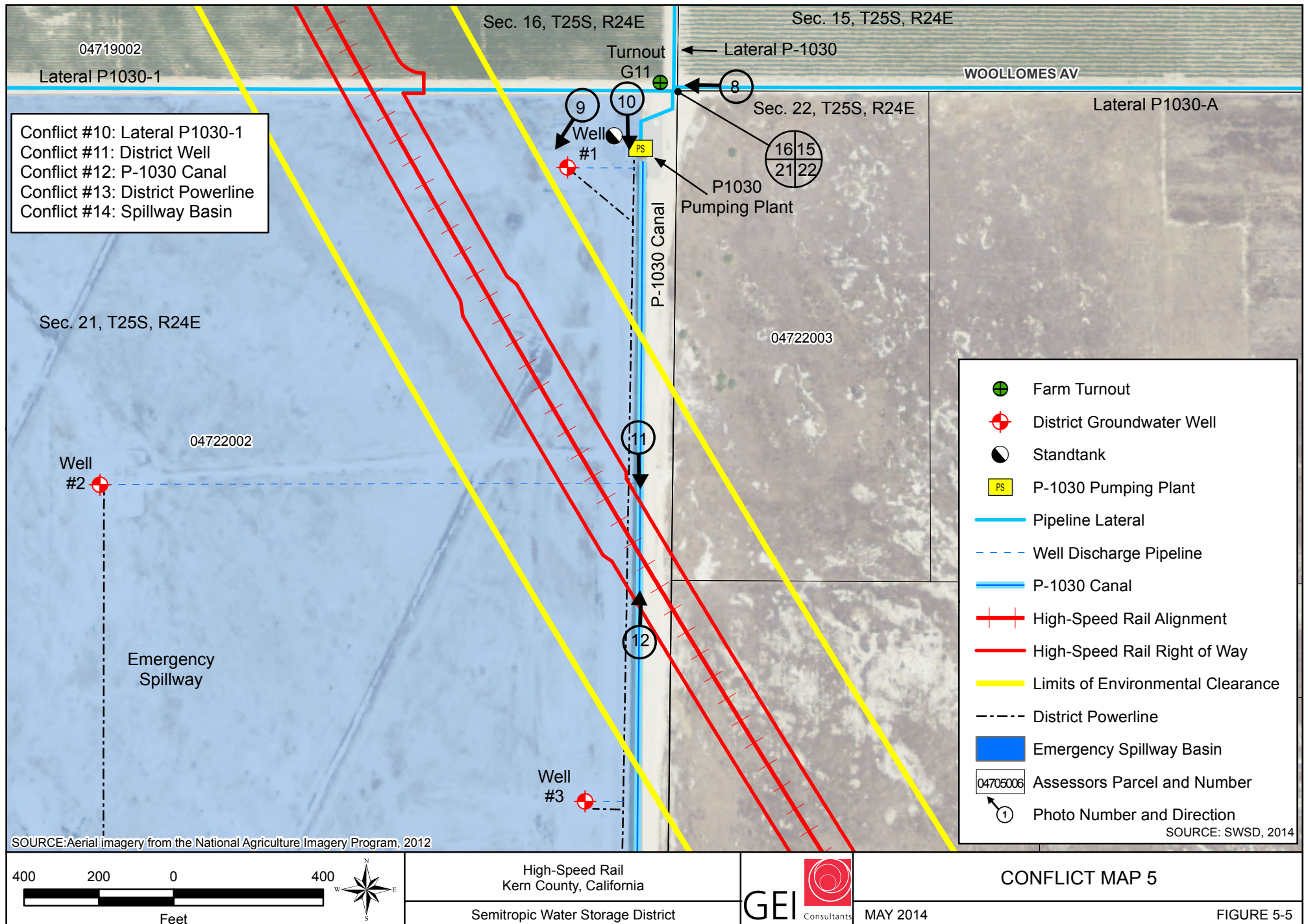
FIGURE 5-3

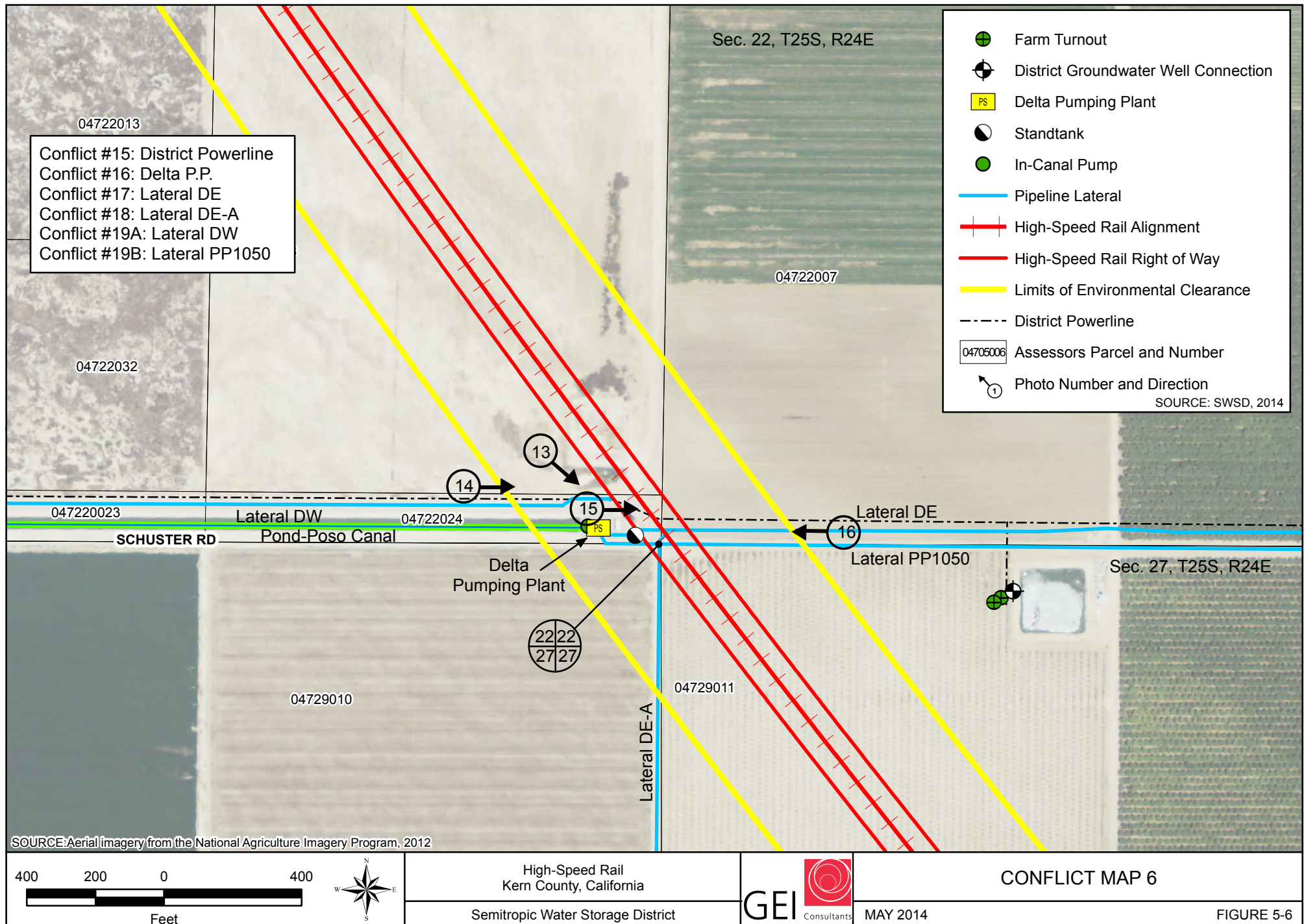
RFP No. 14-32 - 08/07/15



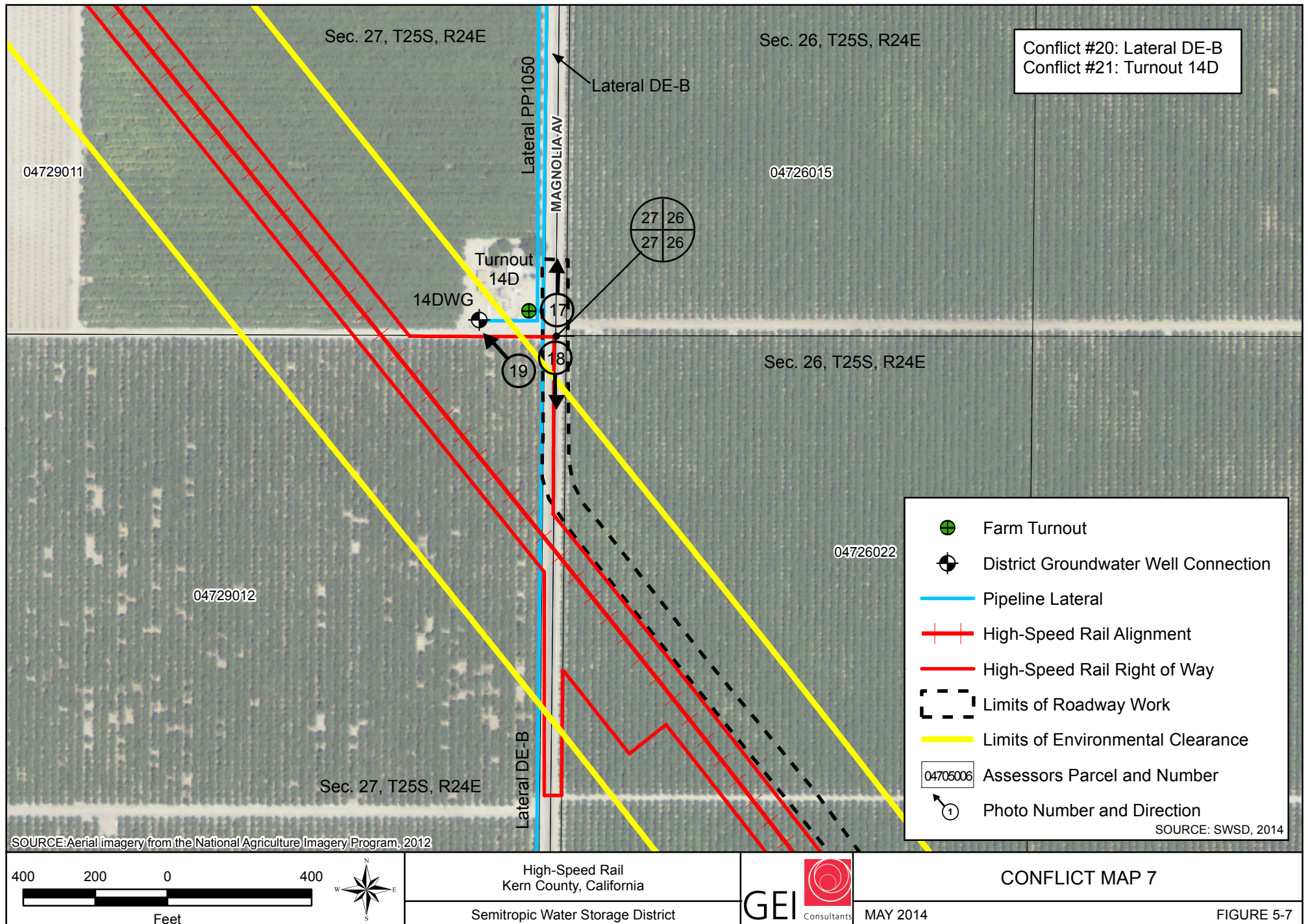














Conflict #22: Lateral CE-4-A  
 Conflict #23A: Turnout 34CE  
 Conflict #23B: 34CEGW

Sec. 26, T25S, R24E

04726021

22  
 34CEGW  
 Turnout  
 34CE  
 21  
 20

Lateral CE-4-A

POND RD

Sec. 25, T25S, R24E

04735005

04735003

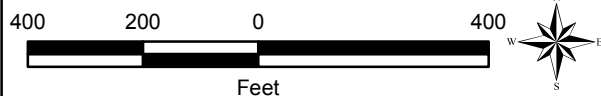
Lateral CE-4-A

26 26  
 35 35

- Farm Turnout
- District Groundwater Well Connection
- Pipeline Lateral
- High-Speed Rail Alignment
- High-Speed Rail Right of Way
- Limits of Roadway Work
- Limits of Environmental Clearance
- Assessors Parcel and Number
- Photo Number and Direction

SOURCE: SWSD, 2014

SOURCE: Aerial imagery from the National Agriculture Imagery Program, 2012



High-Speed Rail  
 Kern County, California

Semitropic Water Storage District

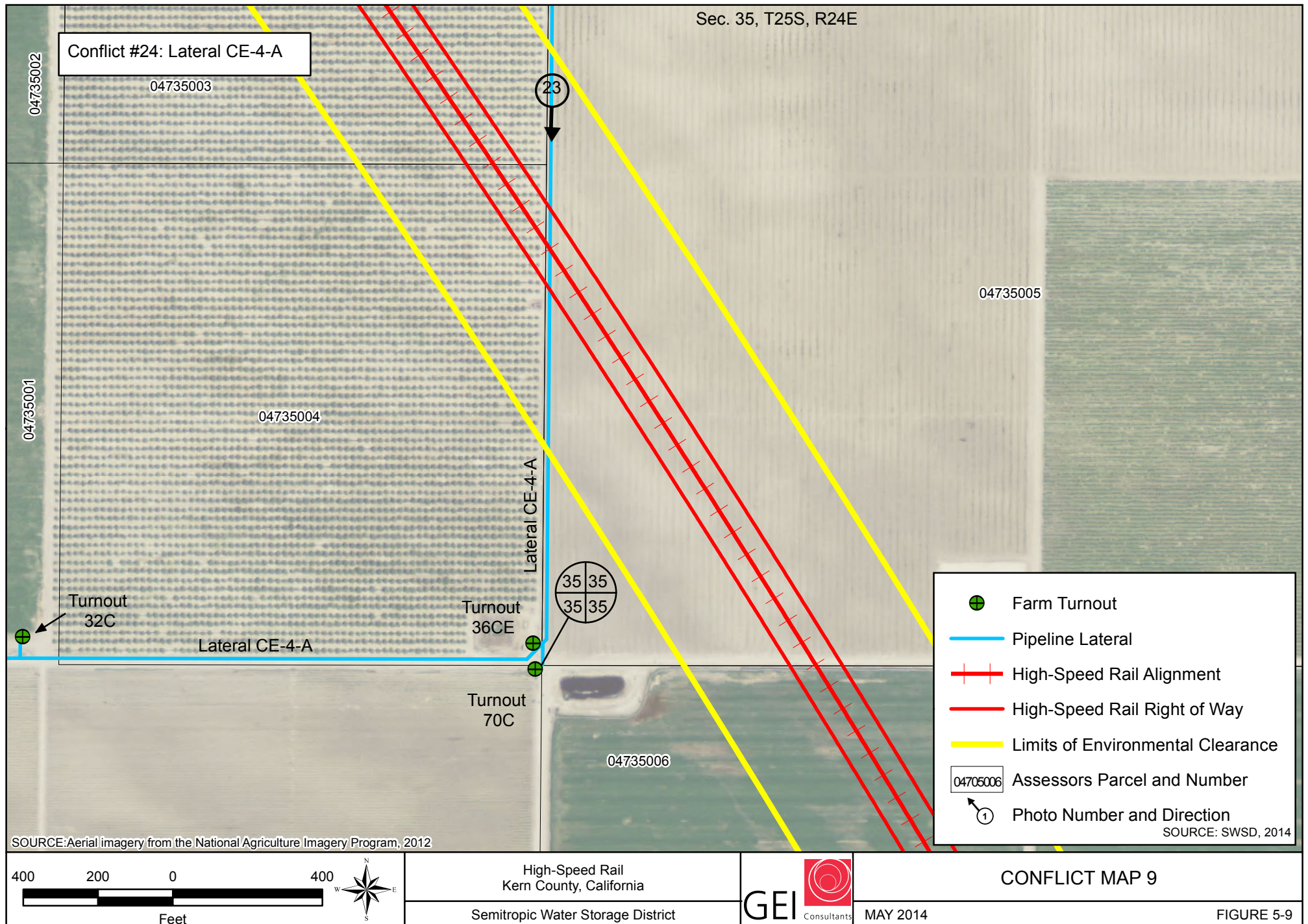


MAY 2014

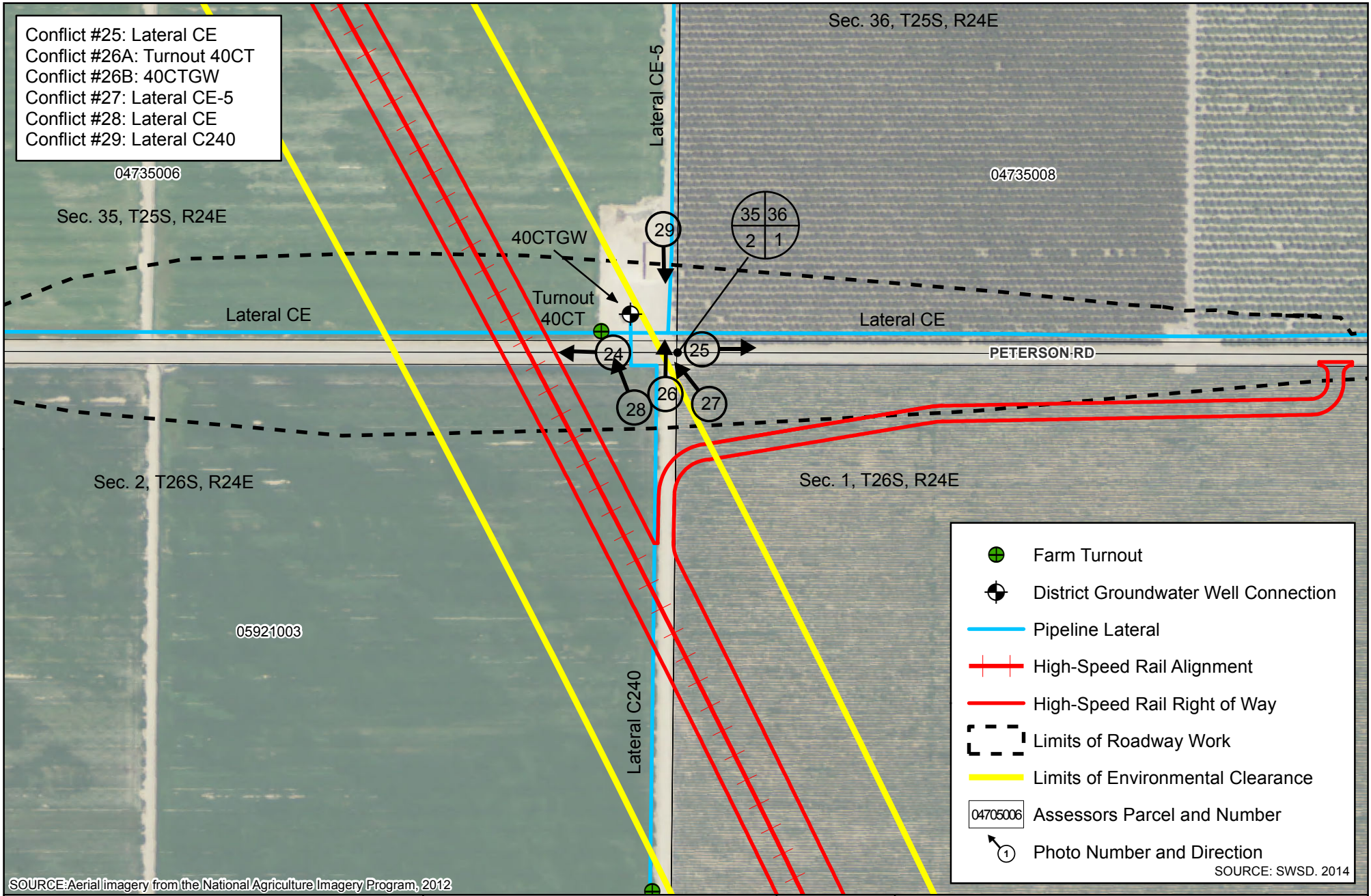
CONFLICT MAP 8

FIGURE 5-8

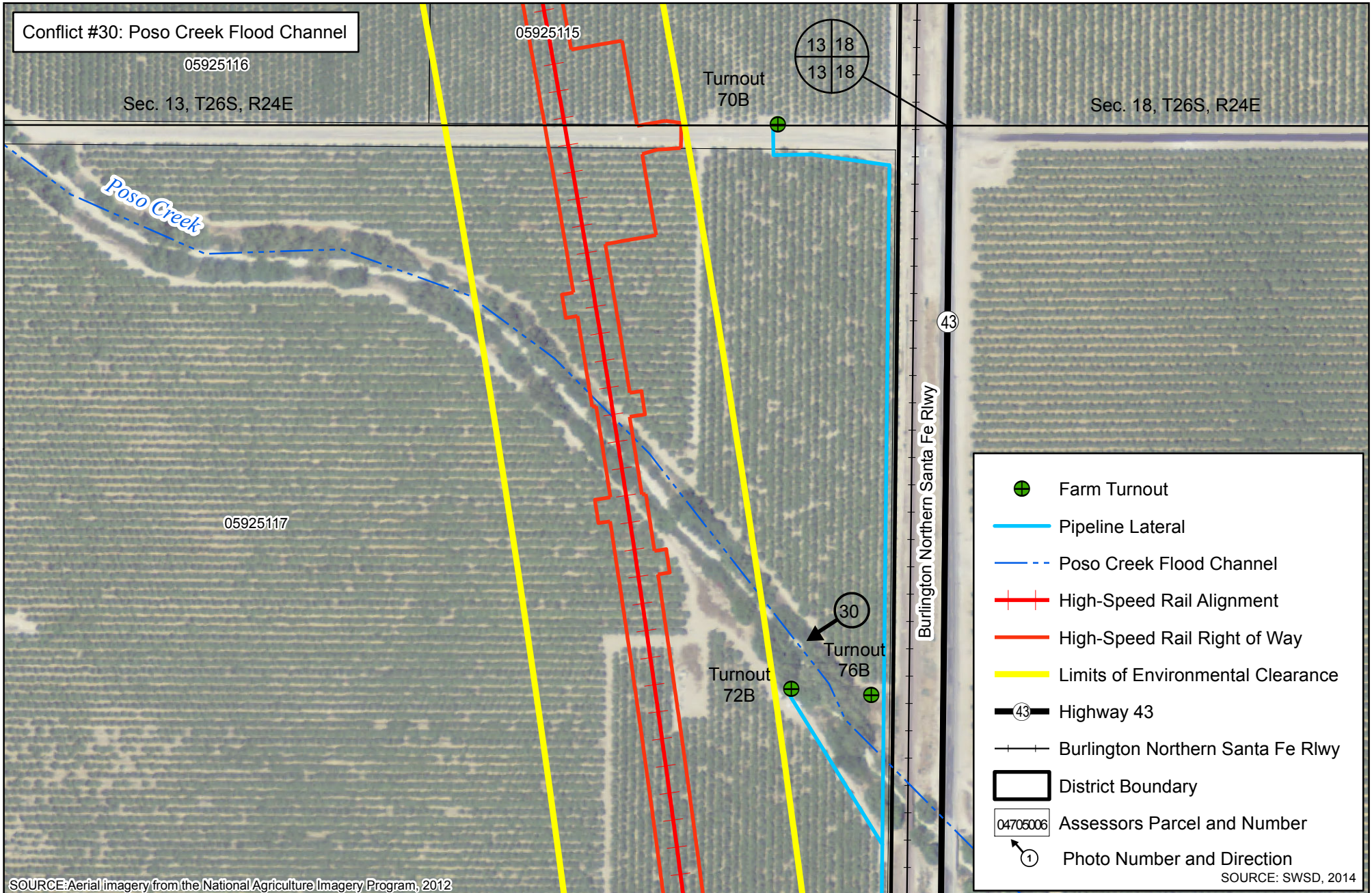




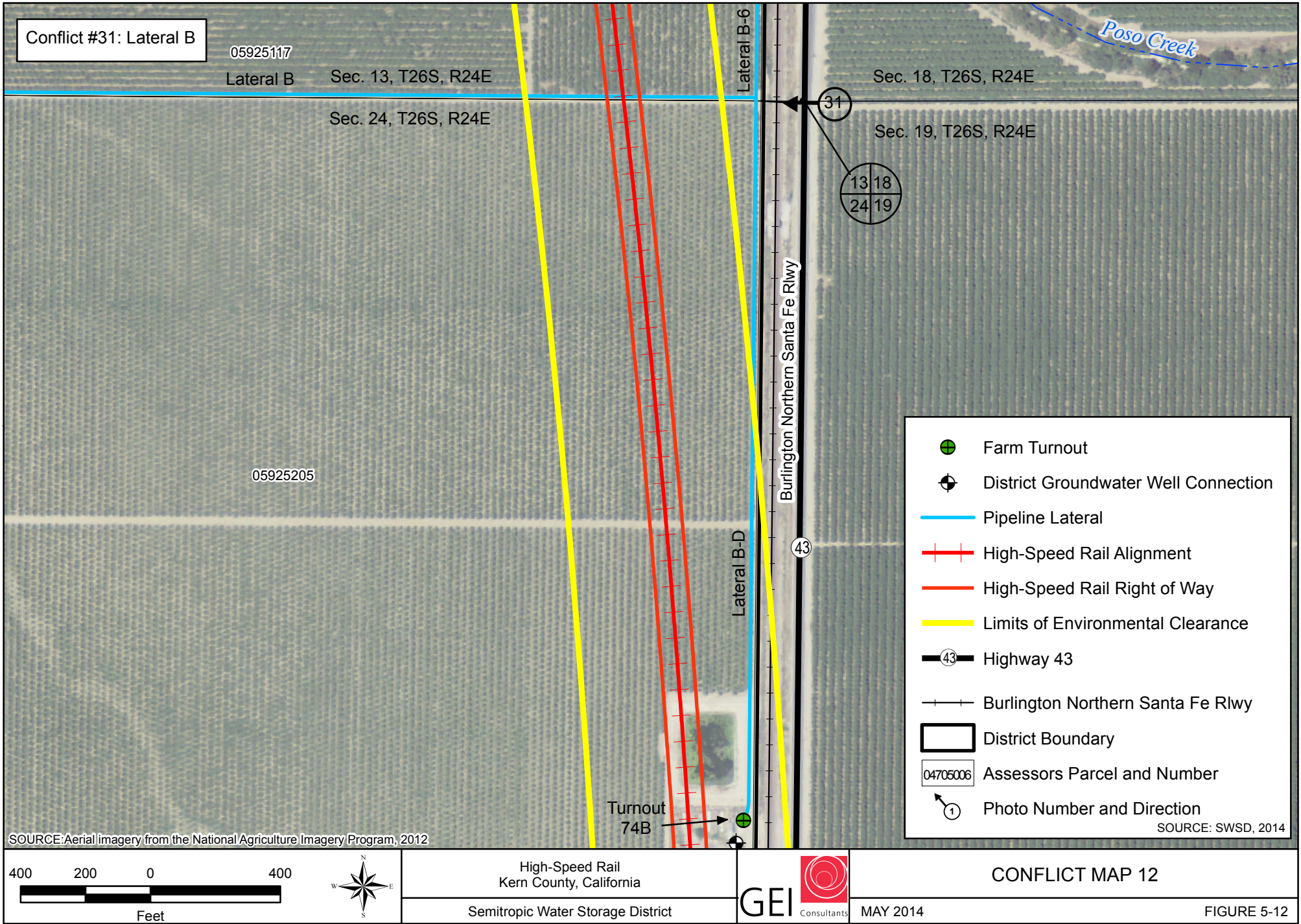














## *Site Photographs*

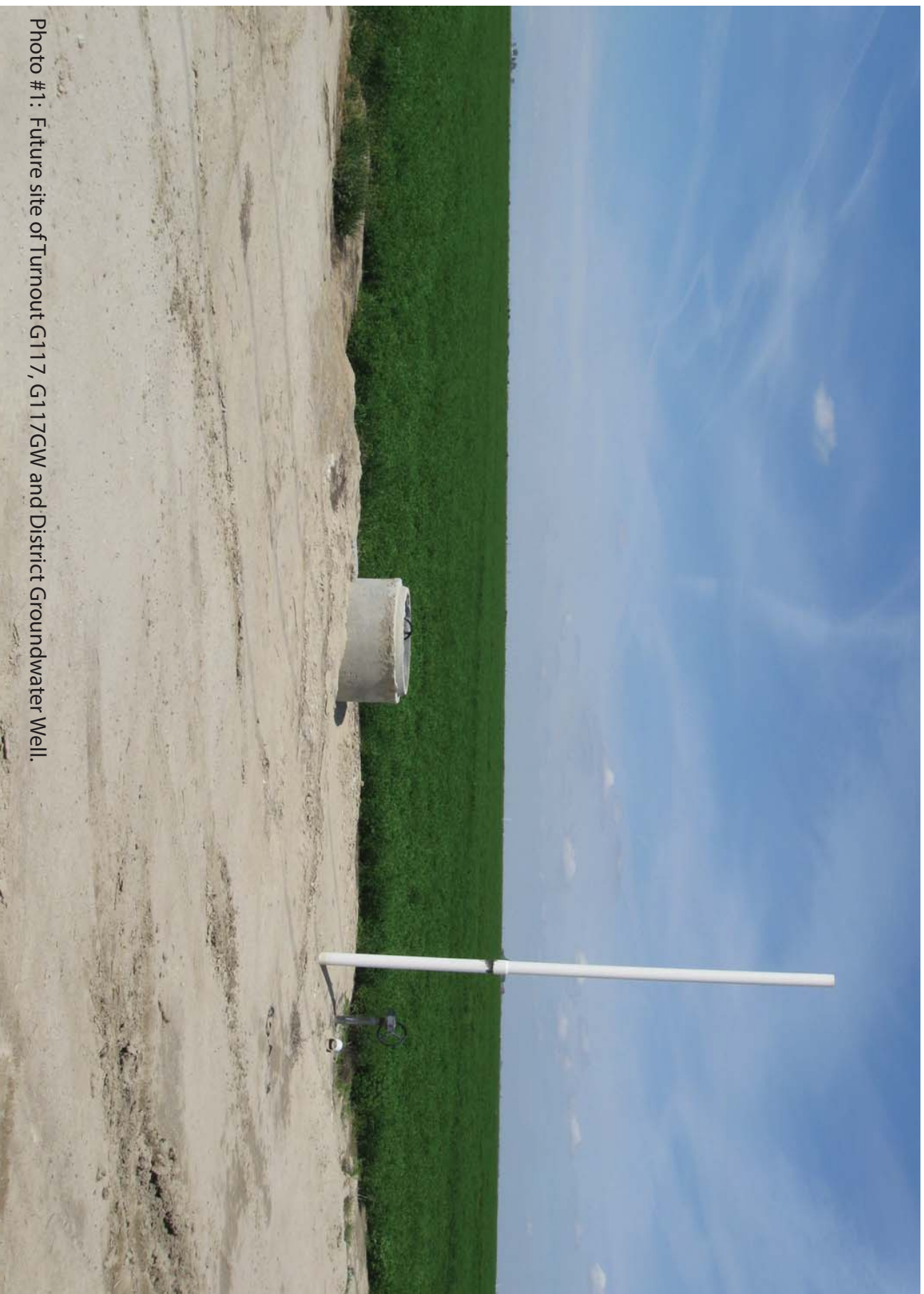


Photo #1: Future site of Turnout G117, G117GW and District Groundwater Well.

High-Speed Rail Kern County, California	 GEI Consultants	Site Photos
		Conflict #1, #2, #2A, & 2B
Semitropic Water Storage District		Figure 6-1
		April 2014



Photo #2: District Groundwater Well Site, Future Turnout G109, and Future G109GW.

High-Speed Rail Kern County, California		 GEI Consultants	Site Photos Conflict #3, #4, #4A, #4B, & #5	
Semitropic Water Storage District			April 2014	Figure 6-2





Photo #3: Turnout G95 and G95GW



Photo #4: Private Groundwater Well and G95GW (District Groundwater Well Connection).



<p>High-Speed Rail Kern County, California Semitropic Water Storage District</p>	<p><b>GEI</b> Consultants <small>Boekhoff-Ehrhardson Division</small></p>	<p>Site Photos - Conflict #8, #9A, &amp; #9B April 2014 Figure 6-4</p>
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Photo #8: Lateral P1030-1 pipeline corridor and Turnout G11.



Photo #9: Emergency Spillway Basin.





Photo #10: District's electrical distribution line, running West of the P-1030 Canal.



Photo #11: Well #2 pipeline discharging into the P-1030 Canal.

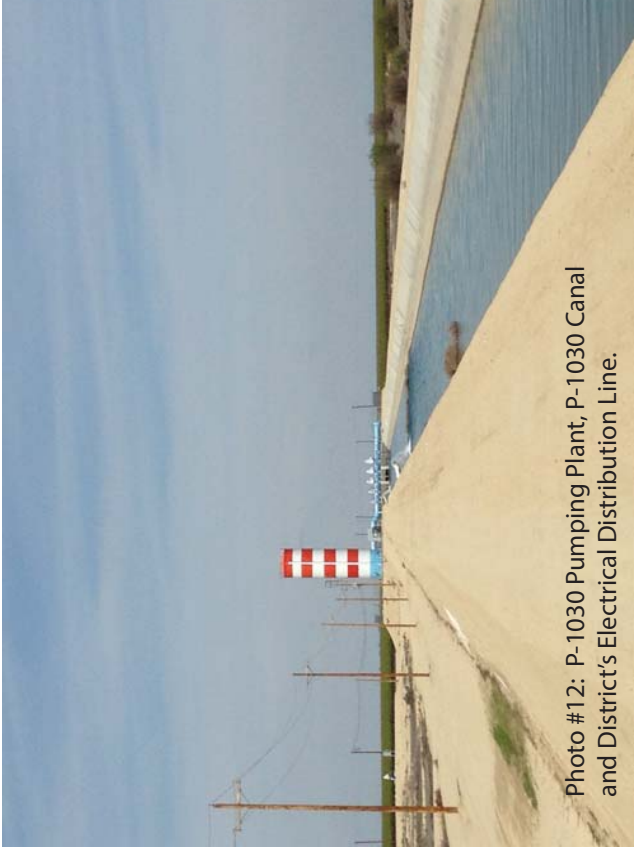


Photo #12: P-1030 Pumping Plant, P-1030 Canal and District's Electrical Distribution Line.

High-Speed Rail Kern County, California	 <b>GEI</b> Consultants Buckman-Edmondson Division	Site Photos - Conflict #10, #11, #12, #13, & #14
Semitropic Water Storage District		April 2014
		Figure 6-6



Photo #13: Delta Pumping, Standtank, and PH Adjustment Facility.



Photo #14: District's Electrical Distribution Line.





Photo #15: District's electrical distribution line and Lateral DE and Lateral PP1050 pipeline corridor.



Photo #16: District's electrical distribution line and Lateral DE and Lateral PP1050 pipeline corridor.





Photo #17: Lateral DE-B pipeline corridor.



Photo #18: Lateral DE-B pipeline corridor.



Photo #19: 14DGW.

<p>High-Speed Rail Kern County, California</p>	<p>Site Photos - Conflict #20 &amp; #21</p>
<p>Semitropic Water Storage District</p>	<p>April 2014</p>
	<p>Figure 6-9</p>



Photo #20: Turnout 34CE and 34CEGW.



Photo #21: Lateral CE-4-A pipeline corridor.



Photo #22: Lateral CE-4-A pipeline corridor.





Photo #23: Lateral CE-4-A pipeline corridor.

<p>High-Speed Rail Kern County, California</p>	<p><b>GEI</b> <small>Consultants</small></p>	<p>Site Photos Conflict #24</p>
<p>Semitropic Water Storage District</p>		<p>April 2014</p>
<p>Figure 6-11</p>		





Photo #24: Lateral CE pipeline corridor.



Photo #25: Lateral CE pipeline corridor.



Photo #26: Lateral CE-5 pipeline corridor.



Photo #27: 40CTGW.





Photo #28: Turnout 40CT.



Photo #29: Lateral C240 pipeline corridor.





Photo #30: Poso Creek Flood Channel

High-Speed Rail Kern County, California	 <b>GEL</b> Consultants Bookman-Edmonston Division	Site Photos Conflict #30
Semitropic Water Storage District		April 2014
		Figure 6-15



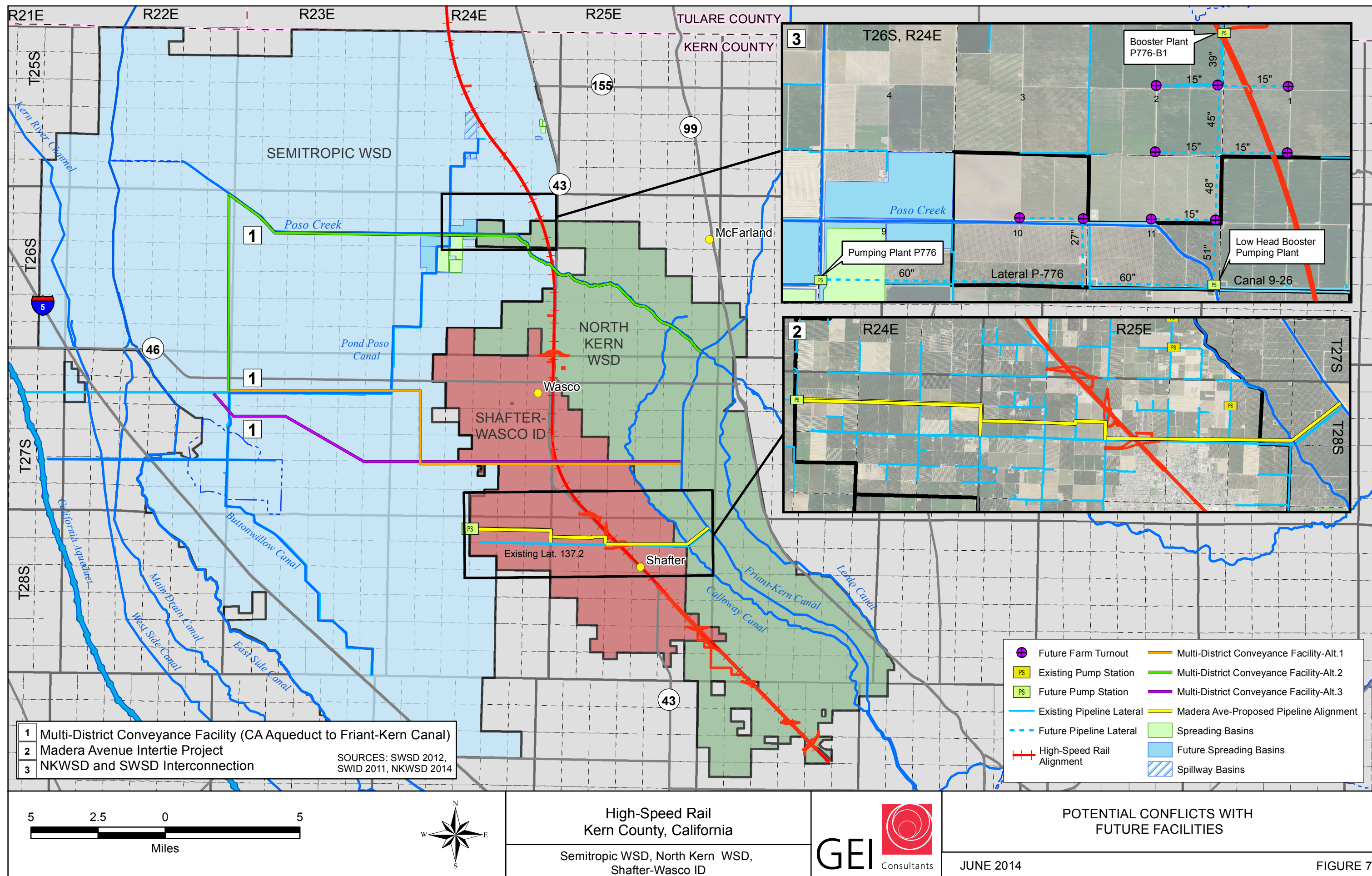


Photo #31: Lateral B pipeline corridor.

High-Speed Rail Kern County, California	 <b>GEI</b> Consultants <small>Bookman-Edmonston Division</small>	Site Photos Conflict #31
Semitropic Water Storage District		April 2014  

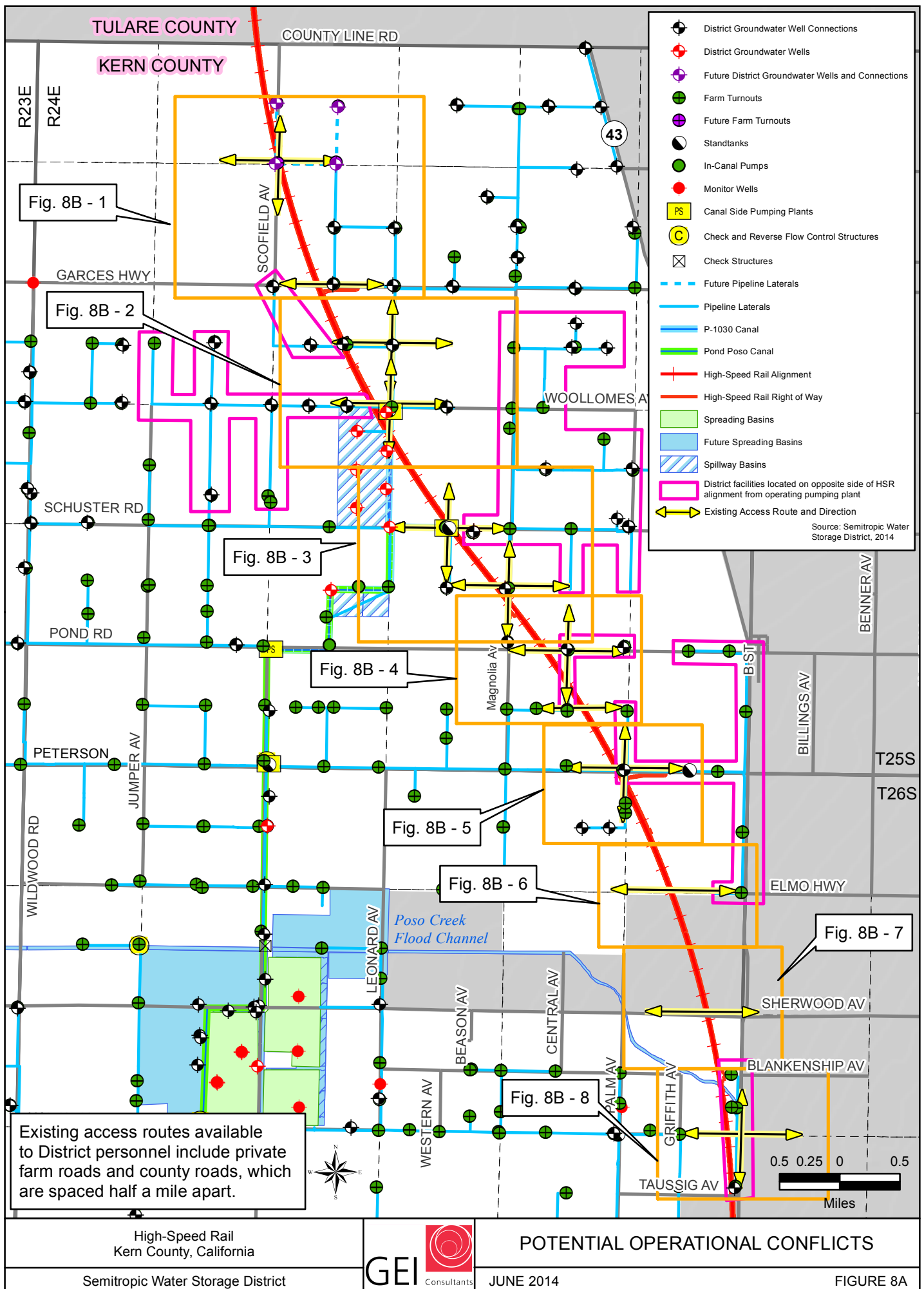
## *Prospective Conflicts Map*



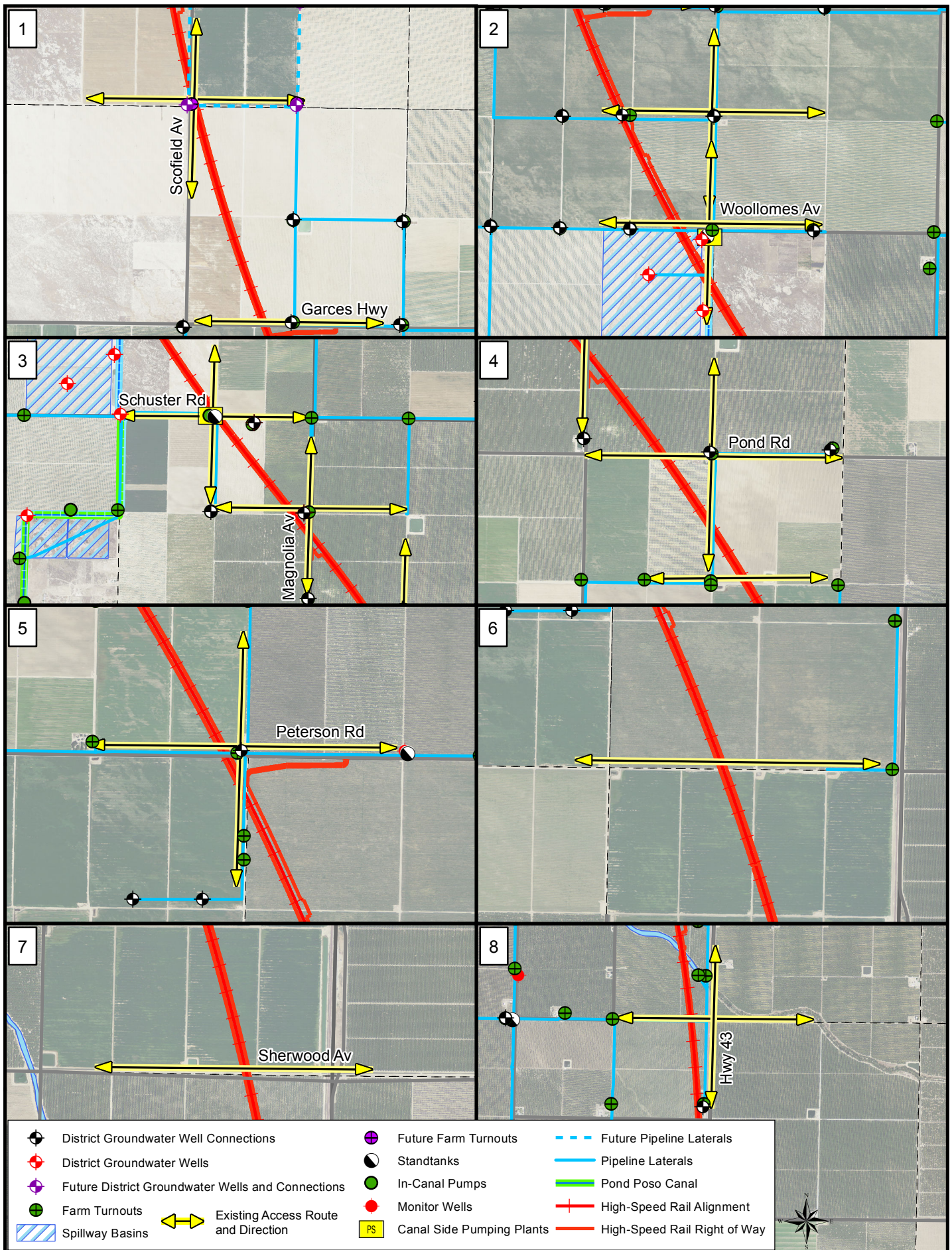


## *Operational Conflicts Map*









High-Speed Rail  
Kern County, California

Semitropic Water Storage District



POTENTIAL OPERATIONAL CONFLICTS

JUNE 2014

FIGURE 8B



## *Summary of Conflicts*

Semitropic Water Storage District  
High Speed Rail Project  
Potentially Impacted District Facilities

Item No.	Distribution System Name	Facility Name	Facility Impacted by HSR or Road Realignment	HSR Alignment, Exhibit Page No.	HSR Alignment Station	Nearest Major Cross Streets	Facility Type and Size (Year Installed)	Facility Location	Construction Contract Name	Construction Contract No.	As-Built Drawing No.	Easement Type	Easement Document No. (Year, Width)	Water Service Agreement No.
1	P-1030 Distribution System	Lateral P1030-3-1	HSR and Road Realignment	"A1" Line, #20	4515+00	Scofield Ave., 0.5 mile S. of County Line Rd.	15" PVC, PIP 100	Sec. 5, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-101, P1030X-203	Fee Parcel	000214042664 (2014)	N/A
2A	P-1030 Distribution System	District Groundwater Well	HSR and Road Realignment	"A1" Line, #20	4515+00	Scofield Ave., 0.5 mile S. of County Line Rd.	District Groundwater Well	Sec. 5, T25S, R24E	N/A	N/A	N/A	Fee Parcel	000214042664 (2014)	N/A
2B	P-1030 Distribution System	Turnout G117	HSR and Road Realignment	"A1" Line, #20	4515+00	Scofield Ave., 0.5 mile S. of County Line Rd.	Farm turnout (10-inch) with flow meter and valves	Sec. 5, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-305, P1030X-306, P1030X-309	Fee Parcel	000214042664 (2014)	N/A
2C	P-1030 Distribution System	G117GW	HSR and Road Realignment	"A1" Line, #20	4515+00	Scofield Ave., 0.5 mile S. of County Line Rd.	Groundwater Well Connection	Sec. 5, T25S, R24E	N/A	N/A	P1030X-305, P1030X-306, P1030X-309	Fee Parcel	000214042664 (2014)	0208178111
3	P-1030 Distribution System	Lateral P1030-3-1	HSR and Road Realignment	"A1" Line, #21	4536+00	Scofield Ave., one mile N. of Garces Hwy.	15" PVC, PIP 100	Sec. 5, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-101, P1030X-203	Fee Parcel	000214042664 (2014)	N/A
4A	P-1030 Distribution System	District Groundwater Well	HSR and Road Realignment	"A1" Line, #21	N/A	Scofield Ave., one mile N. of Garces Hwy.	District Groundwater Well	Sec. 5, T25S, R24E	N/A	N/A	N/A	Fee Parcel	000214042664 (2014)	N/A
4B	P-1030 Distribution System	Turnout G109	HSR and Road Realignment	"A1" Line, #23	N/A	Scofield Ave., one mile N. of Garces Hwy.	Farm turnout (10-inch) with flow meter and valves	Sec. 5, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-305, P1030X-306, P1030X-309	Fee Parcel	000214042664 (2014)	N/A
4C	P-1030 Distribution System	G109GW	HSR and Road Realignment	"A1" Line, #23	N/A	Scofield Ave., one mile N. of Garces Hwy.	Groundwater Well Connection	Sec. 5, T25S, R24E	N/A	N/A	P1030X-305, P1030X-306, P1030X-309	Fee Parcel	000214042664 (2014)	0208178111
5	P-1030 Distribution System	Lateral P1030-3-1	HSR and Road Realignment	"A1" Line, #21 and #23	4542+00	Scofield Ave., one mile N. of Garces Hwy.	18" PVC, PIP 100	Sec. 4, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-101, P1030X-203	Private, Perm. Easement	0208178113 (2008, 20 ft.)	N/A
6	P-1030 Distribution System	Lateral P1030-3	Road Realignment	"A1" Line, #24	N/A	Scofield Ave. & Garces Hwy.	24" PVC, PIP 100 (2008)	Sec. 9, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-101, P1030X-201	Private, Perm. Easement	0208178114 (2008, 20 ft.)	N/A
7A	P-1030 Distribution System	Turnout G95	Road Realignment	"A1" Line, #24	N/A	Scofield Ave. & Garces Hwy.	Farm turnout (10-inch) with flow meter and valves (2008)	Sec. 9, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-305, P1030X-306, P1030X-308	Private, Perm. Easement	0208178114 (2008, 20 ft. x 65 ft.)	N/A
7B	P-1030 Distribution System	G95GW	Road Realignment	"A1" Line, #24	N/A	Scofield Ave. & Garces Hwy.	Groundwater Well Connection (2008)	Sec. 9, T25S, R24E	P-1030 Distribution System Ext.	N/A	P1030X-305, P1030X-306, P1030X-308	Private, Perm. Easement	0208178114 (2008, 20 ft. x 65 ft.)	0208178111
8	P-1030 Distribution System	Lateral P1030-2	HSR	"A1" Line, #25	4626+50	Scofield Ave. & Garces Hwy.	21" PVC, PIP 100 (2008)	Sec. 16, T25S, R24E	P-1030 Distribution System	Spec. No. WB-520	P1030-102, P1030-103, P1030-207	Private, Perm. Easement	0206145774 (2006, 20 ft.)	N/A
9A	P-1030 Distribution System	Turnout G29	HSR	"A1" Line, #25	4626+00	Scofield Ave. & Garces Hwy.	Farm turnout (12-inch) with flow meter and valves (2008)	Sec. 16, T25S, R24E	P-1030 Distribution System	Spec. No. WB-520	P1030-307, P1030-308, P1030-309, P1030-312	Private, Perm. Easement	0206145774 (2006, 20 ft. x 83 ft.)	N/A
9B	P-1030 Distribution System	G29GW	HSR	"A1" Line, #25	4626+00	Scofield Ave. & Garces Hwy.	Groundwater Well Connection (2008)	Sec. 16, T25S, R24E	P-1030 Distribution System	Spec. No. WB-520	P1030-307, P1030-308, P1030-309, P1030-312	Private, Perm. Easement	0206145774 (2006, 20 ft. x 30 ft.)	0205230744
10	P-1030 Distribution System	Lateral P1030-1	HSR	"A1" Line, #26	4656+00	Magnolia Ave. & Woollomes Ave.	27" RCP, HC120 (2008)	Sec. 16, T25S, R24E	P-1030 Distribution System	Spec. No. WB-520	P1030-102, P1030-103, P1030-202	Private, Perm. Easement/Fee Parcel	0206145774 (2006, 10 ft.)	N/A
11	N/A	District Groundwater Well	HSR	"A1" Line, #26	4667+00	Magnolia Ave. & Woollomes Ave.	District Groundwater Well	Sec. 21, T25S, R24E	N/A	N/A	N/A	Fee Parcel	Book 6489, Page 2319 (1991)	N/A
12	P-1030 Distribution System	P-1030 Canal	HSR	"A1" Line, #26	4670+00	Garces Hwy., one mile East of Scofield Ave.	Concrete-lined Canal (2008)	Sec. 21, T25S, R24E	P-1030 Distribution System	Spec. No. WB-520	P1030-200, P1030-300	Fee Parcel	Book 6489, Page 2319 (1991)	N/A
13	District Power Line	N/A	HSR	"A1" Line, #26	4670+00	Garces Hwy., one mile East of Scofield Ave.	Overhead 12kV Distribution Line	Sec. 21, T25S, R24E	N/A	N/A	N/A	Fee Parcel	Book 6489, Page 2319 (1991)	N/A
14	Emergency Spillway Basin	N/A	HSR	"A1" Line, #26	4656+00 thru 4670+00	Garces Hwy., one mile East of Scofield Ave.	Emergency Spillway Basin-320 acres	Sec. 21, T25S, R24E	N/A	N/A	N/A	Fee Parcel	Book 6489, Page 2319 (1991)	N/A
15	District Power Line	N/A	HSR	"A1" Line, #28	4718+00	Shuster Rd. & Magnolia Ave.	Overhead 12kV Distribution Line	Sec. 22, T25S, R24E	N/A	N/A	N/A	Private, Perm. Easement	Book 5051, Page 1956 (1977, 30ft)	N/A



Semitropic Water Storage District  
High Speed Rail Project  
Potentially Impacted District Facilities

Item No.	Distribution System Name	Facility Name	Facility Impacted by HSR or Road Realignment	HSR Alignment, Exhibit Page No.	HSR Alignment Station	Nearest Major Cross Streets	Facility Type and Size (Year Installed)	Facility Location	Construction Contract Name	Construction Contract No.	As-Built Drawing No.	Easement Type	Easement Document No. (Year, Width)	Water Service Agreement No.
16	Delta Distribution System	Delta Pumping Plant	HSR	"A1" Line, #28	4718+50	Shuster Road & Magnolia Ave	Canal side pumping plant, 5-bays, 65 cfs,975 HP, 20'-diameter steel standtank, 120' high and related facilities (1975)	Sec. 22, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-3004, PCD-5001, PCD-5003, PCD-5007	Fee Parcel	Book 4931, Page 2144 (1975, 140 ft)	N/A
17	Delta Distribution System	Lateral DE	HSR	"A1" Line, #28	4719+00	Shuster Road & Magnolia Ave	36" RCP, HC150 (1975)	Sec. 22, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2009	Private, Perm. Easement	Book 5051, Page 1956 (1977, 30 ft.)	N/A
18	Delta Distribution System	Lateral DE-A	HSR	"A1" Line, #28	4719+50	Shuster Road & Magnolia Ave	15" RCP, HC125 (1977)	Sec. 27, T25S, R24E	1977 System Extensions	Spec. No. PP-503	PPX-1003, PPX-2015	Private, Perm. Easement	Book 5124, Page 604 (1978, 20 ft.)	N/A
19A	Delta Distribution System	Lateral DW	HSR	"A1" Line, #28	4719+50	Shuster Road & Magnolia Ave	27" RCP, HC150 (1977)	Sec. 27, T25S, R24E	1977 System Extensions	Spec. No. PP-503	PPX-1003, PPX-2015	Fee Parcel	Book 4931, Page 2144 (1975, 140 ft)	N/A
19B	Delta Distribution System	Lateral PP1050	HSR	"A1" Line, #28	4718+00	Shuster Road & Magnolia Ave		Sec. 27, T25S, R24E	N/A	N/A	N/A	Private, Perm. Easement	Book 5051, Page 1956 (1977, 20 ft.)	N/A
20	Delta Distribution System	Lateral DE-B	HSR and Road Realignment	"A1" Line, #29	4761+00	Shuster Road & Magnolia Ave	12" ACP, HC150 (1975)	Sec. 27, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2009	Private, Perm. Easement	Book 5051, Page 1956 (1979, 20 ft.)	N/A
21	Delta Distribution System	Turnout 14D	Road Realignment	"A1" Line, #29	N/A	Shuster Road & Magnolia Ave	Farm turnout (10-inch) with flow meter and valves (1975)	Sec. 27, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2511	Private, Perm. Easement	Book 5051, Page 1956 (1977, 20 ft. x 30 ft.)	N/A
22	Charlie Distribution System	Lateral CE-4-A	Road Realignment	"A1" Line, #31	N/A	Pond Road & Magnolia Ave	15" RCP, HC150 (1975)	Sec.26/35, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2005	Private Perm. Easement	Book 5072, Page 2267 (1977, 20 ft.)	N/A
23A	Charlie Distribution System	Turnout 34CE	Road Realignment	"A1" Line, #31	N/A	Pond Road & Magnolia Ave	Farm turnout (10-inch) with flowmeter and valve (1975)	Sec.26, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-2511, PCD-2512, PCD-2513	Private Perm. Easement	Book 5072, Page 2267 (1977, 20 ft. x 30 ft.)	N/A
23B	Charlie Distribution System	34CEGW	Road Realignment	"A1" Line, #31	N/A	Pond Road & Magnolia Ave	Groundwater Well Connection	Sec.26, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-2511, PCD-2512, PCD-2513	Private Perm. Easement	Book 5072, Page 2267 (1977, 20 ft. x 30 ft.)	Book 4874 Page 2376
24	Charlie Distribution System	Lateral CE-4-A	HSR	"A1" Line, #32	4805+00	Pond Road & Magnolia Ave	18" RCP, HC150 (1975)	Sec. 35, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2005	Private, Perm. Easement	Book 5239, Page 1556 (1979, 20 ft.)	N/A
25	Charlie Distribution System	Lateral CE	HSR and Road Realignment	"A1" Line, #33	4849+00	Peterson Road & Magnolia Ave	30" RCP, HC150 (1975)	Sec. 35, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2002	Private, Perm. Easement	Book 5166, Page 2050 (1979, 20 ft./40 ft.	N/A
26A	Charlie Distribution System	Turnout 40CT	Road Realignment	"A1" Line, #33	N/A	Peterson Road & Magnolia Ave	Farm turnout (10-inch) with flow meter and valves (1975)	Sec. 35, T25S, R24E	N/A	N/A	N/A	Private, Perm. Easement	Book 5166, Page 2050 (1979, 20 ft./40 ft.	N/A
26B	Charlie Distribution System	40CTGW	Road Realignment	"A1" Line, #33	N/A	Peterson Road & Magnolia Ave	Groundwater Well Connection	Sec. 35, T25S, R24E	N/A	N/A	N/A	Private, Perm. Easement	Book 5166, Page 2050 (1979, 20 ft./40 ft.	Book 6104 Page 1108
27	Charlie Distribution System	Lateral CE-5	Road Realignment	"A1" Line, #33	N/A	Peterson Road & Magnolia Ave	15" RCP, HC100 (1975)	Sec. 35, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2008	Private, Perm. Easement	Book 5166, Page 2050 (1979, 20 ft.)	N/A
28	Charlie Distribution System	Lateral CE	Road Realignment	"A1" Line, #33 & #34	N/A	Peterson Road & Hwy 43	30" RCP, HC100 (1975)	Sec. 36, T25S, R24E	Lateral Systems C and D	Spec. No. PP-502	PCD-1002, PCD-2002	Private, Perm. Easement	Book 5059, Page 1465 (1977, 30 ft.)	N/A
29	Charlie Distribution System	Lateral C240	HSR and Road Realignment	"A1" Line, #33	4857+00	Peterson Road & Hwy 43		Sec. 1, T26S, R24E	N/A	N/A	N/A	N/A	N/A	N/A
30	N/A	Poso Creek Flood Channel	HSR	"L1" Line, #3	5226+00	Hwy 43 & Blankenship Ave.	Poso Creek Flood Channel	Sec. 13, T26S, R24E	N/A	N/A	N/A	Permit	Poso Creek Permit #17538	N/A
31	Beta Distribution System	Lateral B	HSR	"L1" Line, #4	5245+00	Hwy 43 & Hanawalt Road	21" RCP, HC100 (1976)	Sec. 13, T26S, R24E	1977 System Extensions	Spec. No. PP-503	PPX-1002, PPX-2006	Private, Perm. Easement	Book 5100, Page 54 (1978, 20 ft.)	N/A

**Legend:**  
PVC: Polyvinylchloride      RCP: Reinforced Concrete Pipe      ACP: Asbestos Concrete Pipe      PIP: Pressure Irrigation Pipe and Head Class      HC: Head Class